



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

June 4, 1868.

The Annual Meeting for the election of Fellows was held this day.

Lieut.-General SABINE, President, in the Chair.

The Statutes relating to the Election of Fellows having been read, Mr. Hulke and Capt. Richards were, with the consent of the Society, nominated Scrutators to assist the Secretaries in examining the Lists.

The votes of the Fellows present having been collected, the following Candidates were declared to be duly elected into the Society.

John Ball, Esq., M.A.	Rear-Admiral Astley Cooper Key, C.B.
Henry Charlton Bastian, M.D.	Rear-Admiral Erasmus Ommanney, C.B.
Lieut.-Colonel John Cameron, R.E.	James Bell Pettigrew, M.D.
Prof. R. Bellamy Clifton, M.A.	Edward James Stone, Esq., M.A.
Morgan William Crofton, Esq., B.A.	Rev. Henry Baker Tristram, M.A.
Joseph Barnard Davis, M.D.	William Sandys Wright Vaux, Esq., M.A.
P. Martin Duncan, M.B.	
Peter Griess, Esq.	
Augustus George Vernon Harcourt, Esq.	

Thanks were voted to the Scrutators.

June 11, 1868.

Lieut.-General SABINE, President, in the Chair.

Capt. Sir Leopold M^cClintock, R.N., and Rear-Admiral Ommanney, C.B., were admitted into the Society.

The following communications were read:—

- I. "On the Combustion of Hydrogen and Carbonic Oxide in Oxygen under great pressure." By E. FRANKLAND, F.R.S., Professor of Chemistry in the Royal Institution and in the Royal School of Mines. Received June 11, 1868.

In a former communication to the Royal Society* I described some researches on the effect of a diminution of pressure on some of the phenomena of combustion, and deduced therefrom the law that *the diminution in illuminating-power is directly proportional to the diminution in atmospheric pressure.*

Further experiments, made more than a year ago, on the nature of the luminous agent in a coal-gas flame†, led me to doubt the correctness of the commonly received theory first propounded by Sir Humphry Davy‡, that the light of a gas-flame and of luminous flames in general is due to

* Phil. Trans. vol. cli. p. 629 (1861).

† Lectures on Coal-gas, delivered at the Royal Institution in March 1867. Journal of Gas-lighting.

‡ Phil. Trans. for 1817, p. 75.